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## Unit :- Constructing Algebraic Expressions and Substituting

### Number of Periods : - 04

#### **Constructing Algebraic Expressions**

- Cut lamina of rectangles of  $5 \text{ c.m.} \times 2 \text{ c.m.}$  and squares of  $2 \text{ c.m.} \times 2 \text{ c.m.}$  using a color half sheet A4.
- Represent the algebraic expressions given below using the laminas, when *x* is represented by the rectangular lamina and 1 is represented by square lamina.

Ex :-	x + 2		
1) <i>x</i> +	- 3		
<b>2)</b> x +	- 5		
<b>3)</b> <i>x</i> +	- 6		
<b>4)</b> <i>x</i> +	- 7		

1. write the algebraic expressions shown by the laminas below.



Number bottles that were available	Number of bottles reserved	Number of bottles remaining
8	3	8 - 3
a	1	a-1
x	2	
	7	<i>c</i> – 7
x		<i>x</i> – 9
у	4	
	5	<i>m</i> – 5
п		n – 3

Fill in the blanks of the table below.

• Complete the exercise 19.1 on the pages 97 and 98 of the text book.

#### **Substitution**

# Assigning a numerical value to an unknown term or variable in an algebraic expression is known as substitution.

Complete the table given below

value of <i>x</i>	value of $x + 4$	value of $x + 3$	value of $x + 1$	value of $x + 7$	value of $x + 10$
3	3 + 4 = 7	3 + 3 = 6	3 + 1 = 4	3 + 7 = 10	3 + 10 = 13
5					
6					
7					
9					
8					
1					

• Complete the activity 1 on the pages 99 and 100 of the text book.